

10/517843  
10/517843  
15 DEC 2004

Rec'd PCT/PTO

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number  
WO 2004/093743 A1

(51) International Patent Classification<sup>7</sup>: A61F 2/02

(21) International Application Number:  
PCT/US2004/011903

(22) International Filing Date: 16 April 2004 (16.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/463,036 16 April 2003 (16.04.2003) US  
60/496,684 21 August 2003 (21.08.2003) US

(71) Applicant (for all designated States except US): POREX  
SURGICAL, INC. [US/US]; 15 Dart Road, Newnan, GA  
30265-1017 (US).

(71) Applicant (for US only): SWORDS, Greg [US/US]; 821  
Ralph McGill Boulevard, #3333, Atlanta, GA 30306 (US).

(74) Agent: AITKEN, Andrew, C.; Venable LLP, P.O. Box  
34385, Washington, DC 20043-9998 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

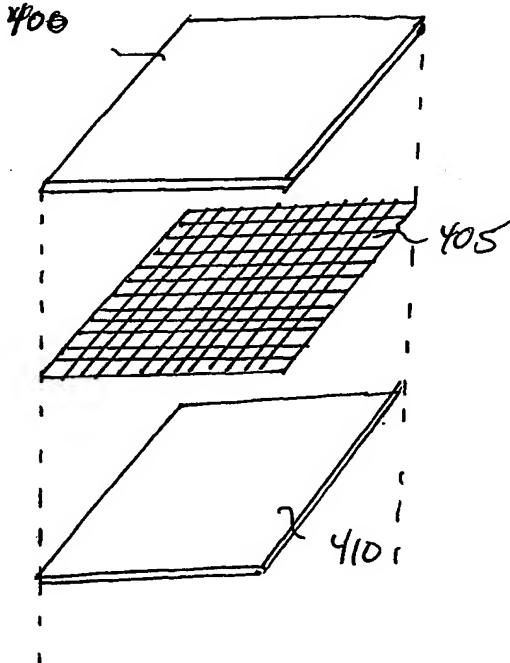
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

[Continued on next page]

(54) Title: CRANIOFACIAL IMPLANT



(57) Abstract: A composite surgical implant that is made of a pla-  
nar sheet of a thermoplastic resin that includes a top surface (400),  
a bottom surface (410), and a surgical grade metal mesh (405) con-  
tained therein. The implant may be bent by hand, wherein upon the  
displacement of the implant, the implant will generally maintain the  
shape to which it has been displaced.

WO 2004/093743 A1